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said shape memory foam member with an original shape is compressed with heating; cooled with keeping said shape memory foam member in the compressed state; and released from the compressive pressure after cooling, and the original shape of said shape memory foam member is substantially recovered by heating.

11. (Twice Amended) A method of producing a shape memory foam member comprising:

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providing the shape memory foam member having a coefficient of water absorption in the range between 0.01 g/cm³ and 0.2 g/cm³ in a non-compressed state and having a bulk density not more than 400 kg/m³;

compressing the shape memory foam member with heating;

cooling the shape memory foam member with keeping the shape memory foam member in the compressed state; and

releasing the shape memory foam member from the compressive pressure after cooling thereby retaining a shape in the compressed state.

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13. (Amended) The shape memory foam member according to Claim 1, wherein a bulk density is not more than 150 kg/m³.

14. (Amended) The engine soundproof cover according to Claim 3, wherein a bulk density is not more than 150 kg/m³.

15. (Amended) The engine soundproof structure according to Claim 7, wherein a bulk density is not more than 150 kg/m³.